abcam

Product datasheet

Recombinant Human Thymidine Kinase 2 protein ab130043

1 Image

Description

Product name Recombinant Human Thymidine Kinase 2 protein

Purity > 85 % SDS-PAGE.

ab130043 is purified using conventional chromatography techniques.

Expression system Escherichia coli

Accession <u>000142</u>

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence MGSSHHHHHH SSGLVPRGSH MGSHMVQRRA

WPPDKEQEKE KKSVICVEGN IASGKTTCLE
FFSNATDVEV LTEPVSKWRN VRGHNPLGLM
YHDASRWGLT LQTYVQLTML DRHTRPQVSS
VRLMERSIHS ARYIFVENLY RSGKMPEVDY
VVLSEWFDWI LRNMDVSVDL NYLRTNPET

CYQRLKKRCR EEEKVIPLEY LEAIHHLHEE WLIKGSLFPM AAPVLVIEAD HHMERMLELF EQNRDRILTP ENRKHCP

Predicted molecular weight 30 kDa including tags

Amino acids 34 to 265

Tags His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab130043** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Mass Spectrometry

Mass spectrometry MALDI-TOF

Form Liquid

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Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 1.17% Sodium chloride, 30% Glycerol (glycerin, glycerine), 0.32% Tris HCl, 0.03%

DTT

General Info

Function Deoxyribonucleoside kinase that phosphorylates thymidine, deoxycytidine, and deoxyuridine. Also

phosphorylates anti-viral and anti-cancer nucleoside analogs.

Tissue specificity Predominantly expressed in liver, pancreas, muscle, and brain.

Involvement in disease Defects in TK2 are a cause of mitochondrial DNA depletion syndrome type 2 (MTDPS2)

[MIM:609560]. A disorder characterized primarily by childhood onset of muscle weakness associated with depletion of mtDNA in skeletal muscle. There is wide clinical variability; some patients have onset in infancy and show a rapidly progressive course with early death due to respiratory failure, whereas others have later onset of a slowly progressive myopathy.

Sequence similarities Belongs to the DCK/DGK family.

Cellular localization Mitochondrion.

Images



15% SDS-PAGE showing ab130043 (3 μg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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